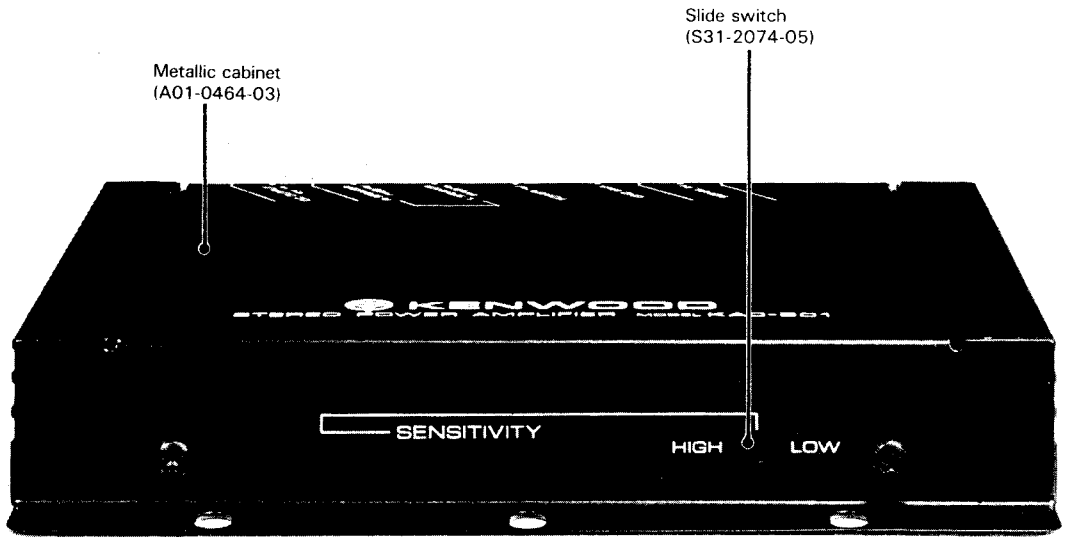
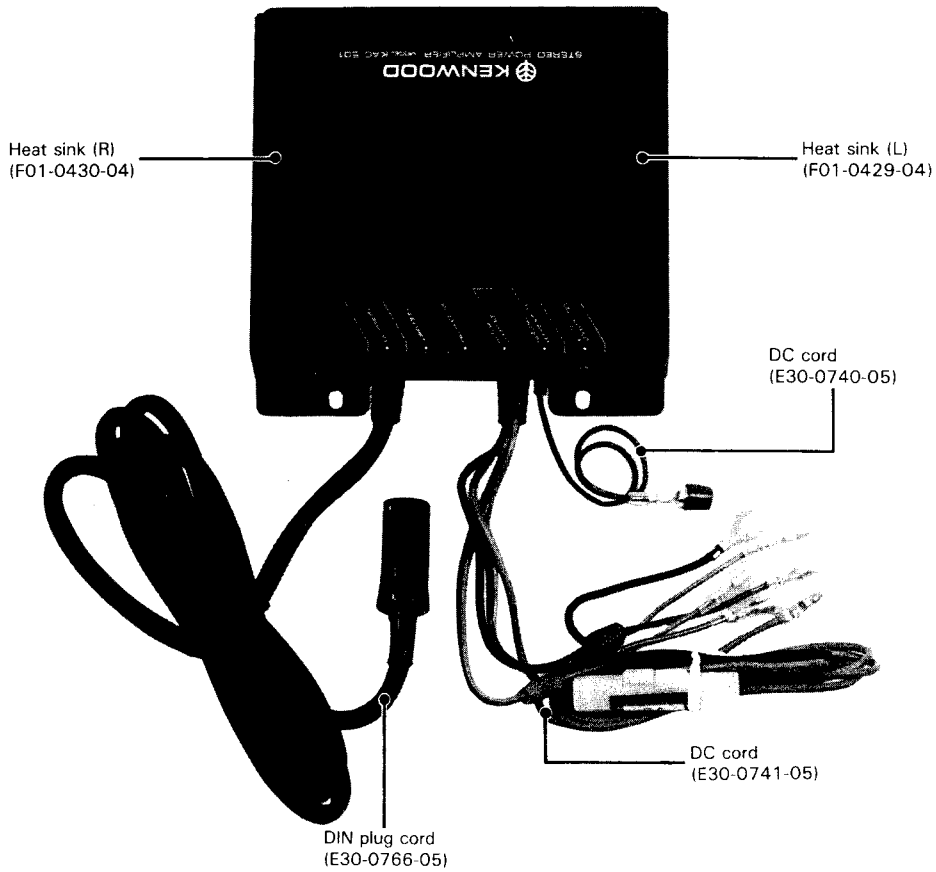
SERVICE MANUAL

KENWOOD®

KAC-501

STEREO POWER AMPLIFIER

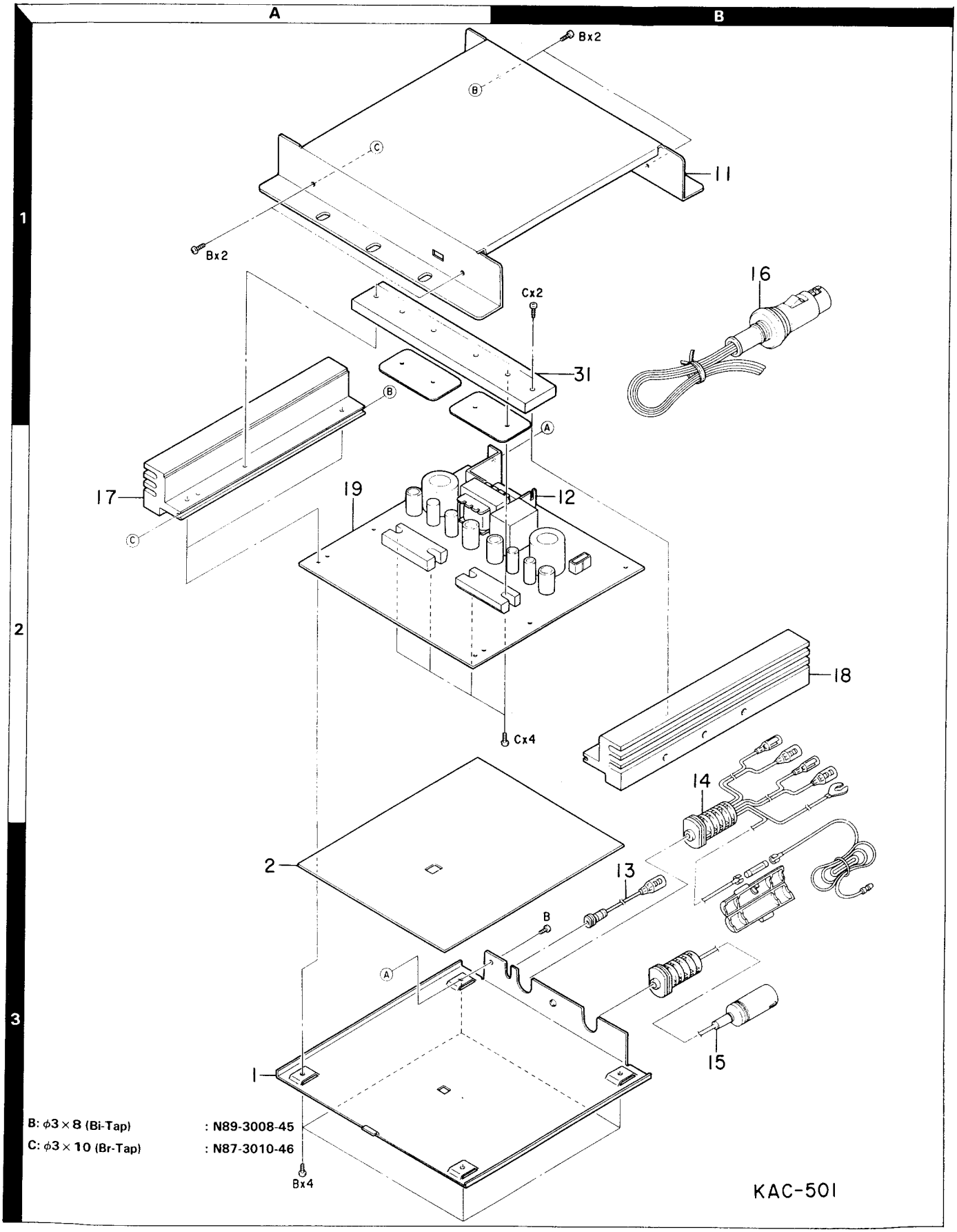




*Refer to Parts List on page 5.

KAC-501

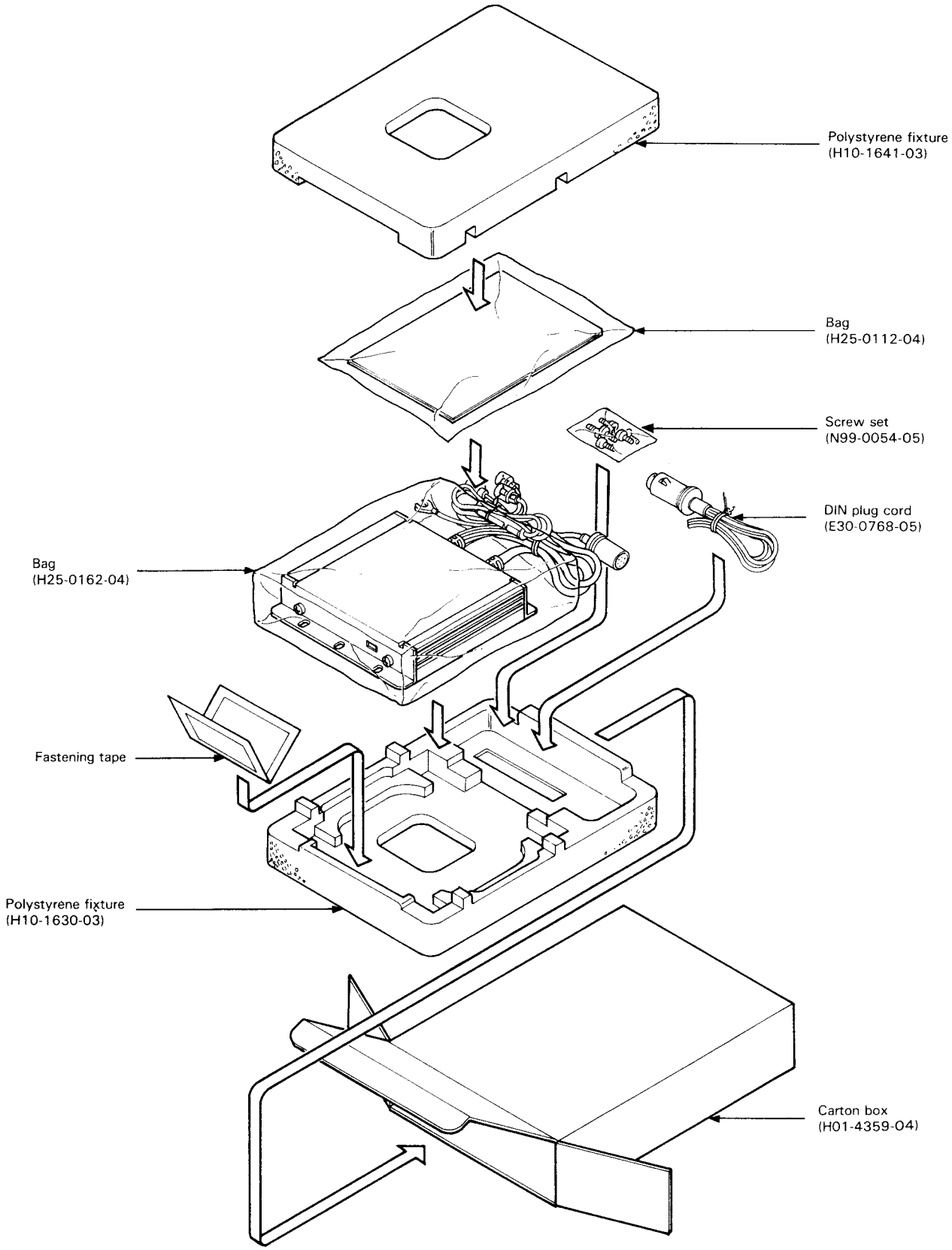
EXPLODED VIEW



B: $\phi 3 \times 8$ (Bi-Tap) : N89-3008-45
C: $\phi 3 \times 10$ (Br-Tap) : N87-3010-46

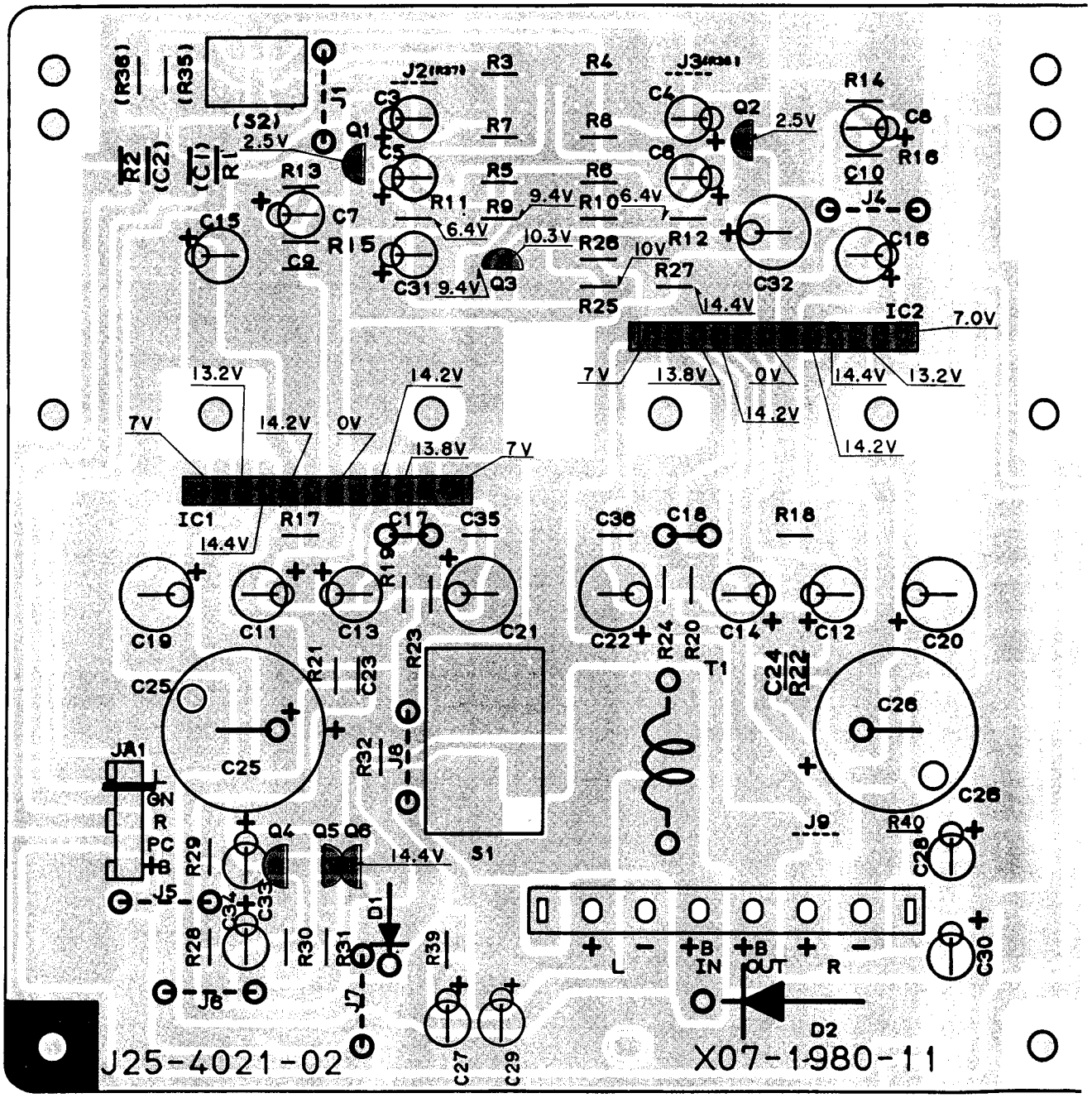
KAC-501

PACKING



PC BOARD

POWER AMP. (X07-1980-11) Component side view



Note 1: Refer to the schematic diagram for the values of resistors and capacitors.
Note 2: The PC board drawing is viewed from the side easy to check.

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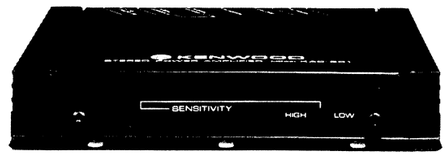
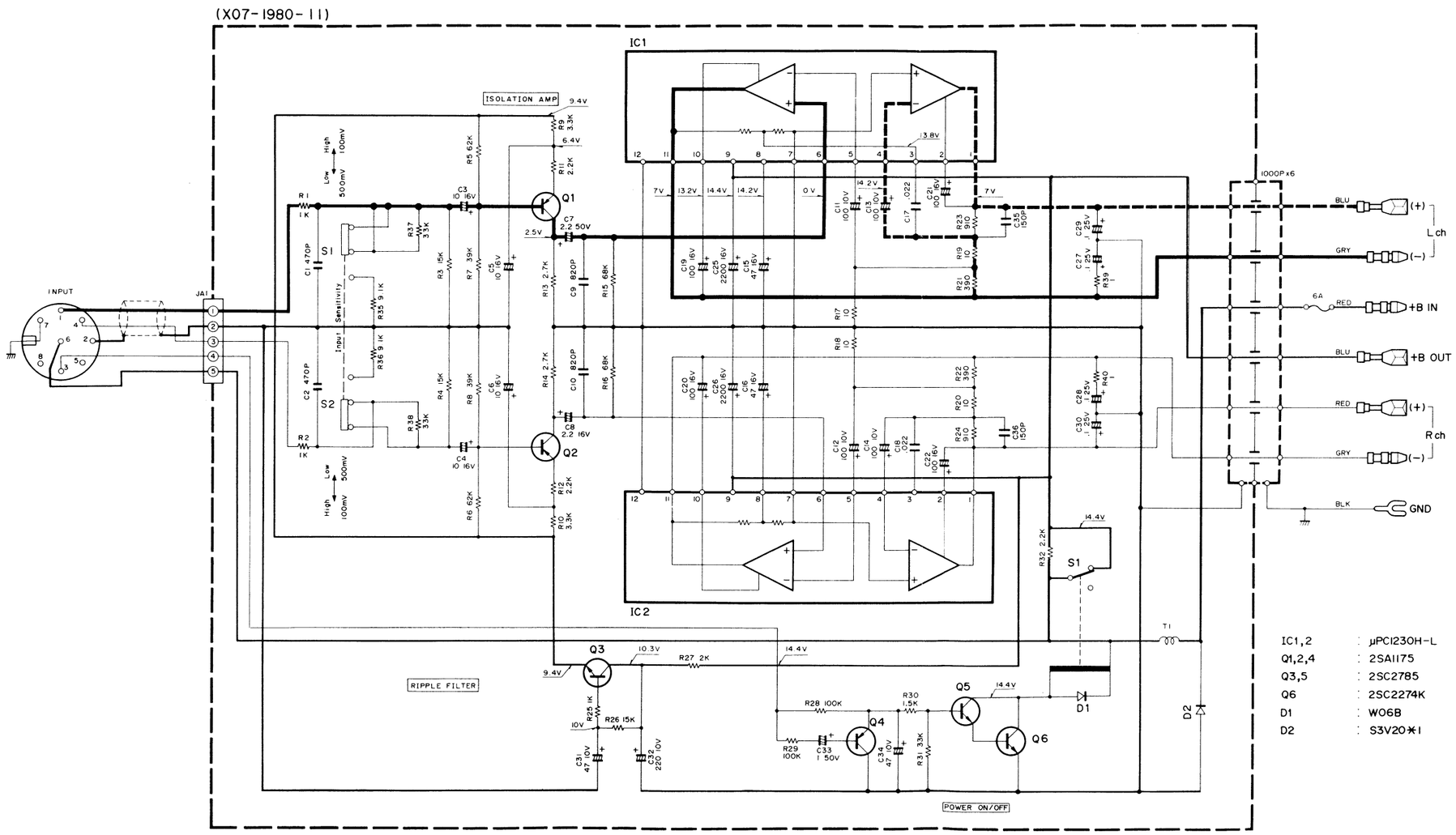
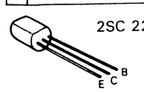


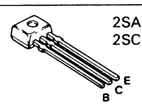
CAUTION

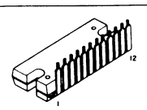
This amplifier uses the BTL connected circuit, so make sure of the following. Since the ground line of the amplifier is floated, when connecting the measuring instruments (oscilloscope, VTVM, distortion meter, load resistors etc.), make sure to use the floated GND terminals. When their grounds are connected to the ground terminals of the power supply, oscillator, etc., the output of the μPC 1230H–L will be short-circuited and IC may be damaged.



KAC-501(K)







SPECIFICATION

Power Output per Channel	
10% T.H.D. at 1 kHz into 4 Ω	20 W × 2
1% T.H.D. 4 Ω	15 W × 2 (20 - 50,000 Hz)
Frequency Response (± 3 dB)	20 Hz ~ 50,000 Hz
Total Harmonic Distortion (at 1 kHz 4 W)	0.07% (1 kHz, 4 W)
Signal to Noise Ratio	94 dB
Input Sensitivity	22 mV/110 mV (AD HOC)
	100 mV/500 mV (Full Power)
Input Impedance	10 kΩ
Load Impedance	4 Ω (4 ~ 8 Ω)
Operating Voltage	14.4 V (11 ~ 16 V)
Dimensions (W × H × D)	150 × 25 × 155 mm
	(5-15/16 × 1 × 6-1/8) inches
Net Weight	0.9 kg (2.0 lbs)

Kenwood follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.

Kenwood poursuit une politique de progrès constants en ce qui concerne le développement. Pour cette raison, les spécifications sont sujettes à modifications sans préavis.

Kenwood strebt ständige Verbesserungen in der Entwicklung an. Daher bleiben Änderungen der technischen Daten jederzeit vorbehalten.

1. DC voltages are measured by a VOM of 20 kΩ/V input impedance.
2. Les tensions de courant continu sont mesurées par un multimètre d'une impédance d'entrée de 20 kΩ/V.
3. Die Gleichstrom-Spannungen werden durch ein Vielfachmeßgerät von 20 kΩ/V Eingangs-Impedanz gemessen.

KAC-501

* New Parts

PARTS LIST

Parts without **Parts No.** are not supplied.
Les articles non mentionnés dans le **Parts No.** ne sont pas fournis.
Teile ohne **Parts No.** werden nicht geliefert.

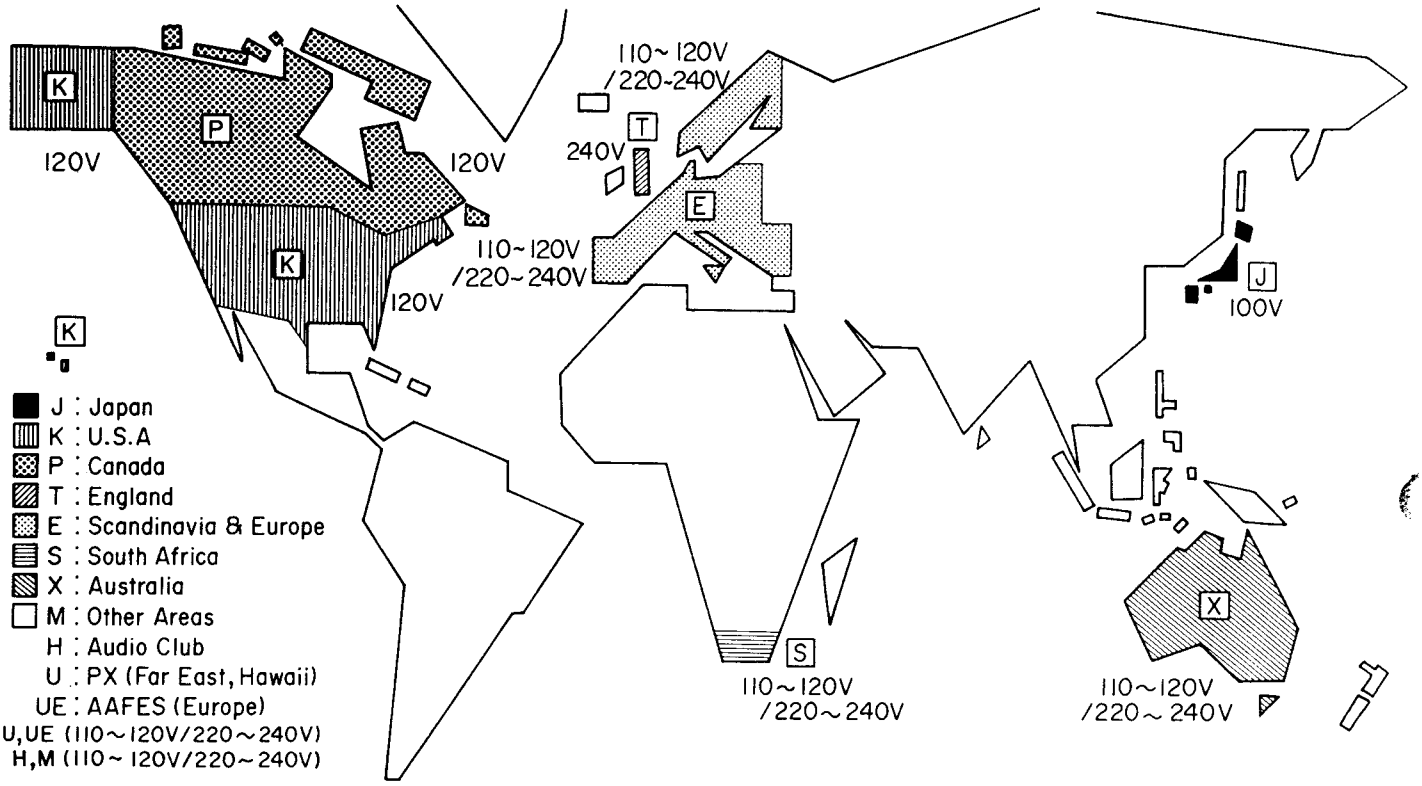
Ref. No. 参照番号	Parts No. 部品番号	Description 部品名／規格	Remarks 備考
KAC-501			
1 3A	NO STOCK	BOTTOM PLATE	
2 3A	NO STOCK	INSULATING PLATE	
11 1A	A01-0464-03	METALLIC CABINET	*
-	B46-0055-30	WARRANTY CARD	P
-	B46-0063-13	WARRANTY CARD	U
-	B46-0070-03	WARRANTY CARD	KU
-	B46-0077-04	WARRANTY CARD	X
-	B46-0079-03	WARRANTY CARD	E
-	B50-4539-00	INSTRUCTION MANUAL	*K
-	B50-4539-00	INSTRUCTION MANUAL	PU
-	B50-4539-00	INSTRUCTION MANUAL	MX
-	B50-4539-00	INSTRUCTION MANUAL	E
-	B50-4594-00	INSTRUCTION MANUAL	*E
12 2B	C91-0612-05	CAPACITOR ASSY	
13 3B	E30-0740-05	DC CORD	
14 2B	E30-0741-05	DC CORD	
15 3B	E30-0766-05	DIN PLUG CORD (170 CM)	*
16 1B	E30-0768-05	DIN PLUG CORD	*
17 2A	F01-0429-04	HEAT SINK (L-CH)	*
18 2B	F01-0430-04	HEAT SINK (R-CH)	*
-	H01-4359-04	CARTON BOX	*
-	H10-1630-03	POLYSTYRENE FIXTURE	*
-	H10-1641-03	POLYSTYRENE FIXTURE	*
-	H12-0108-04	PACKING FIXTURE	*
-	H25-0112-04	BAG	
-	H25-0162-04	BAG	
-	H25-0192-04	BAG	
-	N99-0054-05	Screw set	
19 2A	X07-1980-11	POWER AMP PCB ASSY	*
POWER AMP. (X07-1980-11)			
C1 ,2	C52-1747-16	CERAMIC 470PF K	
C3 -6	C24-1210-67	ELECTRO 10UF 16WV	
C7 ,8	C24-1722-57	ELECTRO 2,2UF 50WV	
C9 ,10	C52-1782-16	CERAMIC 820PF K	
C11 -14	C24-1010-77	ELECTRO 100UF 10WV	
C15 ,16	C24-1247-67	ELECTRO 47UF 16WV	
C17 ,18	C55-1722-38	CERAMIC 0.022UF Z	
C19 -22	C24-1210-77	ELECTRO 100UF 16WV	
C25 ,26	C90-1223-05	ELECTRO 2200UF 16WV	
C27 -30	C90-1218-15	ELECTRO 0.1μF 25WV	
C31	C24-1047-67	ELECTRO 47UF 10WV	
C32	C24-1022-77	ELECTRO 220UF 10WV	
C33	C24-1710-57	ELECTRO 1UF 50WV	
C34	C24-1047-67	ELECTRO 47UF 10WV	
C35 ,36	C52-1715-16	CERAMIC 150PF K	
31 1A,1B	F01-0422-04	HEAT SINK	
T1	L15-0029-05	CHOKE COIL	
S1	S51-1038-05	RELAY	
S2	S31-2074-05	SLIDE SWITCH	
D1	V11-0295-05	W06B	
D2	V11-1301-80	S3V20*1	
IC1 ,2	V30-0820-10	UPC1230H-L	

Ref. No. 参照番号	Parts No. 部品番号	Description 部品名／規格	Remarks 備考
Q1 ,2	V01-1175-00	2SA1175	
Q3	V03-2785-00	2SC2785	
Q4	V01-1175-00	2SA1175	
Q5	V03-2785-00	2SC2785	
Q6	V03-2274-00	2SC2274K	

E: Scandinavia & Europe H: Audio Club K: USA P: Canada
S: South Africa T: England U: PX (Far East, Hawaii)
UE : AAFES (Europe) X: Australia M: Other Areas

KAC-501

WORLD MAP & AREA CODE



Note:

Component and circuitry are subject to modification to insure best operation under differing local conditions. This manual is based on, the U.S. (K) standard, and provides information on regional circuit modification through use of alternate schematic diagrams, and information on regional component variations through use of parts list.

A product of

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